

RESERVOIR SEDIMENT
DATA SUMMARY

BIG DALTON DEBRIS BASIN

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

NAME OF RESERVOIR

70-110

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM BIG DALTON WASH			3. STATE CALIFORNIA					
	4. SEC. 21 TWP. 1N RANGE 9W			5. NEAREST P.O. Glendora			6. COUNTY Los Angeles					
	7. LAT 34° 8' 11" LONG 117° 49' 59"			8. TOP OF DAM ELEVATION 1148.7			9. SPILLWAY CREST ELEV. 1131.5					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL											
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Feb. 60	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.20 MILES				AV. WIDTH OF RESERVOIR 0.10 MILES							
	18. TOTAL DRAINAGE AREA 2.9 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.43 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2.9 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 3.18 MILES		AV. WIDTH 0.82 MILES		24. MEAN ANNUAL RUNOFF AC. FT.							
	21. MAX. ELEV. 3397		MIN. ELEV. 1102.3		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°							
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA, ACRES	32. CAPACITY, ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.		
	Sep 62		2.67	2.67								
	Sep 69		7.00	9.67								
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.				
					a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE			
	Sep 62		16.47		No record of inflow							
	Sep 69		28.19									
	26. DATE OF SURVEY		37. 3/ PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET						
			a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR				
	Sep 62		109.18	40.89	14.10	109.18	40.89	14.10				
Sep 69		259.95	37.14	12.81	369.13	38.17	13.16					
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.	40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM					
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.								
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
47. REMARKS AND REFERENCES															
<u>1/</u> Item 25- Temperature taken at Pasadena, Calif. <u>2/</u> Item 32- Capacity of debris basin varies. Debris excavated at various times. <u>3/</u> Sedimentation values computed by LACFCD are based on complete water year.															
48. AGENCY MAKING SURVEY LACFCD															
49. AGENCY SUPPLYING DATA C of E															
50. DATE <u>12 Feb 73</u>															

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	e. IRRIGATION										Feb 60	
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	Sep 79		10.00	19.67								
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Sep 62		109.18	40.89	14.10	109.18	40.89	14.10					
Sep 69		259.95	37.14	12.81	369.13	38.17	13.16					
Sep 79		15.19	1.52	.52	384.32	19.54	6.74					
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM				
		a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.	b. TOT. TO DATE	a. PERIOD		b. TOT. TO DATE		

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46. ELEVATION-AREA-CAPACITY DATA																	
ELEVATION		AREA		CAPACITY		ELEVATION		AREA		CAPACITY		ELEVATION		AREA		CAPACITY	
47. REMARKS AND REFERENCES																	
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